

6-24-02



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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002

TIME: 14:12:47

Input Set : A:\58994.txt

Output Set: N:\CRF3\04262002\I269250E.raw

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3 <110> APPLICANT: Goulmy, Elsa
5 <120> TITLE OF INVENTION: METHOD FOR TYPING OF MINOR HISTOCOMPATIBILITY ANTIGEN HA-1
7 <130> FILE REFERENCE: 58994
9 <140> CURRENT APPLICATION NUMBER: 09/269,250E
10 <141> CURRENT FILING DATE: 1999-05-21
12 <160> NUMBER OF SEQ ID NOS: 38
14 <170> SOFTWARE: PatentIn version 3.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 377
18 <212> TYPE: DNA
19 <213> ORGANISM: Human
21 <400> SEQUENCE: 1
22 gtgagagcca cggggacacc gaggcctggg tggaagacag agccagaccc aagggaggat      60
24 ggagggaggg acttggggag gctcagaagg gagggaggct cagatggcag ggagggctgt      120
26 gtggaagagg ccatgacagc taaggctctg agggatgtgt aggagtttgg tgggggagtc      180
28 cctgagcgta cactggetca agaggggtgcc cactttattt tttttaagg atctgatggc      240
30 aattaggagg gaaaggcaga ggaaatgtcc catgcacagg ctcagaaaca cggaacaga      300
32 gaatgcattt gggggccaag gtgtgggggtg ccgctggtgt aggatgaagg catgacaacg      360
34 ccaggcagaa gggcaat
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38 <211> LENGTH: 20
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
45 <400> SEQUENCE: 2
46 gtgctgcctc ctggacactg
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 20
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
57 <400> SEQUENCE: 3
58 tggctctcac cgtcatgcag
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 20
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
69 <400> SEQUENCE: 4
70 tggctctcac cgtcacgcaa

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73 <210> SEQ ID NO: 5  
74 <211> LENGTH: 20  
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76 <213> ORGANISM: Artificial Sequence  
78 <220> FEATURE:  
79 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
81 <400> SEQUENCE: 5  
82 gcattctctg ttccgtggt 20  
85 <210> SEQ ID NO: 6  
86 <211> LENGTH: 20  
87 <212> TYPE: DNA  
88 <213> ORGANISM: Artificial Sequence  
90 <220> FEATURE:  
91 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
93 <400> SEQUENCE: 6  
94 cttaaggagt gtgtgctgca 20  
97 <210> SEQ ID NO: 7  
98 <211> LENGTH: 20  
99 <212> TYPE: DNA  
100 <213> ORGANISM: Artificial Sequence  
102 <220> FEATURE:  
103 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
105 <400> SEQUENCE: 7  
106 cttaaggagt gtgtgttgcg 20  
109 <210> SEQ ID NO: 8  
110 <211> LENGTH: 20  
111 <212> TYPE: DNA  
112 <213> ORGANISM: Artificial Sequence  
114 <220> FEATURE:  
115 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
117 <400> SEQUENCE: 8  
118 gctgtcatgg cctcttccac 20  
121 <210> SEQ ID NO: 9  
122 <211> LENGTH: 20  
123 <212> TYPE: DNA  
124 <213> ORGANISM: Artificial Sequence  
126 <220> FEATURE:  
127 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
129 <400> SEQUENCE: 9  
130 gcattctctg ttccgtggt 20  
133 <210> SEQ ID NO: 10  
134 <211> LENGTH: 20  
135 <212> TYPE: DNA  
136 <213> ORGANISM: Artificial Sequence  
138 <220> FEATURE:  
139 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
141 <400> SEQUENCE: 10  
142 ggcagagagc cctcgagcc 20  
145 <210> SEQ ID NO: 11

## RAW SEQUENCE LISTING

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146 <211> LENGTH: 18  
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148 <213> ORGANISM: Artificial Sequence  
150 <220> FEATURE:  
151 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
153 <400> SEQUENCE: 11  
154 gtgtgttgcg tgacggtg 18  
157 <210> SEQ ID NO: 12  
158 <211> LENGTH: 15  
159 <212> TYPE: DNA  
160 <213> ORGANISM: Artificial Sequence  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
165 <400> SEQUENCE: 12  
166 gtgtgttgcg tgacg 15  
169 <210> SEQ ID NO: 13  
170 <211> LENGTH: 16  
171 <212> TYPE: DNA  
172 <213> ORGANISM: Artificial Sequence  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
177 <400> SEQUENCE: 13  
178 tgtgtgttgcg tgacg 16  
181 <210> SEQ ID NO: 14  
182 <211> LENGTH: 19  
183 <212> TYPE: DNA  
184 <213> ORGANISM: Artificial Sequence  
186 <220> FEATURE:  
187 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
189 <400> SEQUENCE: 14  
190 tgtgtgctgc atgacggtg 19  
193 <210> SEQ ID NO: 15  
194 <211> LENGTH: 18  
195 <212> TYPE: DNA  
196 <213> ORGANISM: Artificial Sequence  
198 <220> FEATURE:  
199 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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202 tgtgtgctgc atgacggt 18  
205 <210> SEQ ID NO: 16  
206 <211> LENGTH: 18  
207 <212> TYPE: DNA  
208 <213> ORGANISM: Artificial Sequence  
210 <220> FEATURE:  
211 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
213 <400> SEQUENCE: 16  
214 gtgtgctgca tgacggtg 18  
217 <210> SEQ ID NO: 17  
218 <211> LENGTH: 27

## RAW SEQUENCE LISTING

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Input Set : A:\58994.txt

Output Set: N:\CRF3\04262002\I269250E.raw

219 <212> TYPE: DNA  
220 <213> ORGANISM: Artificial Sequence  
222 <220> FEATURE:  
223 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments  
225 <220> FEATURE:  
226 <221> NAME/KEY: CDS  
227 <222> LOCATION: (1)..(27)  
228 <223> OTHER INFORMATION:  
231 <400> SEQUENCE: 17  
232 gtg ttg cgt gac gac ctc ctt gag gcc 27  
233 Val Leu Arg Asp Asp Leu Leu Glu Ala  
234 1 5  
237 <210> SEQ ID NO: 18  
238 <211> LENGTH: 9  
239 <212> TYPE: PRT  
240 <213> ORGANISM: Artificial Sequence  
242 <220> FEATURE:  
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments  
245 <400> SEQUENCE: 18  
247 Val Leu Arg Asp Asp Leu Leu Glu Ala  
248 1 5  
251 <210> SEQ ID NO: 19  
252 <211> LENGTH: 27  
253 <212> TYPE: DNA  
254 <213> ORGANISM: Artificial Sequence  
256 <220> FEATURE:  
257 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments  
259 <220> FEATURE:  
260 <221> NAME/KEY: CDS  
261 <222> LOCATION: (1)..(27)  
262 <223> OTHER INFORMATION:  
265 <400> SEQUENCE: 19  
266 gtg ctg cat gac gac ctc ctt gag gcc 27  
267 Val Leu His Asp Asp Leu Leu Glu Ala  
268 1 5  
271 <210> SEQ ID NO: 20  
272 <211> LENGTH: 9  
273 <212> TYPE: PRT  
274 <213> ORGANISM: Artificial Sequence  
276 <220> FEATURE:  
277 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments  
279 <400> SEQUENCE: 20  
281 Val Leu His Asp Asp Leu Leu Glu Ala  
282 1 5  
285 <210> SEQ ID NO: 21  
286 <211> LENGTH: 23  
287 <212> TYPE: DNA  
288 <213> ORGANISM: Artificial Sequence  
290 <220> FEATURE:

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291 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments
293 <400> SEQUENCE: 21
294 gtgttgctg acggtgagag cca                                     23
297 <210> SEQ ID NO: 22
298 <211> LENGTH: 37
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments
305 <400> SEQUENCE: 22
306 ctacttcga ctctcccccag cagacctcct tgaggcc                 37
309 <210> SEQ ID NO: 23
310 <211> LENGTH: 33
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
317 <400> SEQUENCE: 23
318 ccggcatgga cgtcgtcgag gacatctccc atc                     33
321 <210> SEQ ID NO: 24
322 <211> LENGTH: 30
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
329 <400> SEQUENCE: 24
330 ctacttcagg ccacagcaat cgtctccagg                         30
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 39
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR Product
341 <220> FEATURE:
342 <221> NAME/KEY: CDS
343 <222> LOCATION: (1)..(39)
344 <223> OTHER INFORMATION:
347 <400> SEQUENCE: 25
348 gag tgt gtg ttg cgt gac gac ctc ctt gag gcc cgc cgc       39
349 Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg
350 1          5          10
353 <210> SEQ ID NO: 26
354 <211> LENGTH: 13
355 <212> TYPE: PRT
356 <213> ORGANISM: Artificial Sequence
358 <220> FEATURE:
359 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR Product
361 <400> SEQUENCE: 26
363 Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002  
TIME: 14:12:48

Input Set : A:\58994.txt  
Output Set: N:\CRF3\04262002\I269250E.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:29; Xaa Pos. 3  
Seq#:37; Xaa Pos. 2

VERIFICATION SUMMARY

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Input Set : A:\58994.txt

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L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0